

# **METHOD AND APPARATUS FOR COMBINATORIAL SCREENING OF POLYMER COMPOSITIONS**

## **Abstract of Disclosure**

A method and apparatus for detecting chemiluminescence from polymer samples at various temperatures are described. The method enables rapid parallel determination of the heat-stability, light-stability, and oxidative stability of polymer samples as a function of their composition. The method is particularly useful for determining the stability of polymer compositions forming combinatorial libraries.

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Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.7	0.4	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.6	0.4	0	1
Sleep quality	0.7	0.3	0	1
Work satisfaction	0.6	0.4	0	1
Life satisfaction	0.7	0.3	0	1
Depression score	0.3	0.4	0	1
Anxiety score	0.2	0.3	0	1
Resilience score	0.6	0.4	0	1
Optimism score	0.7	0.3	0	1
Gratitude score	0.8	0.2	0	1
Forgiveness score	0.7	0.3	0	1
Empathy score	0.8	0.2	0	1
Compassion score	0.7	0.3	0	1
Kindness score	0.8	0.2	0	1
Generosity score	0.7	0.3	0	1
Patience score	0.8	0.2	0	1
Self-control score	0.7	0.3	0	1
Emotional stability score	0.8	0.2	0	1
Psychological well-being score	0.7	0.3	0	1
Overall life satisfaction score	0.7	0.3	0	1